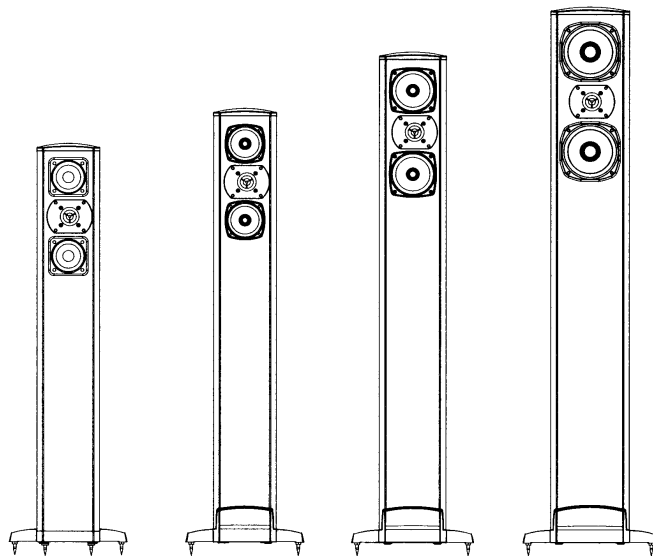


Definitive Technology

# **BIPOLAR SUPERTOWER** OWNER'S MANUAL

*BP-8000 SuperTower® Series:  
BP-8080ST, BP-8060ST, BP-8040ST, BP-8020ST*



*Definitive Technology®*  
*The Leader in High-Performance Loudspeakers®*

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Thank you for choosing the Definitive Technology Bipolar SuperTower Loudspeaker System. The Bipolar ST is a unique speaker which features Forward-Focused Bipolar array technology and a built-in powered subwoofer. This extraordinary speaker is truly state-of-the-art in music and home theater loudspeaker technology and performance. You have chosen wisely.

Our engineers have spent many years in developing this product. In order to ensure that you experience the finest performance possible, we encourage you to take a moment to fully read this owner's manual and familiarize yourself with the proper installation and set-up procedures for your Bipolar ST speakers.

**[www.DefinitiveTech.com](http://www.DefinitiveTech.com)**

## Safety Precautions



**CAUTION!** To reduce the risk of electric shock and fire, do not remove the cover or back plate of this device. There are no user serviceable parts inside. Please refer all servicing to licensed service technicians. Avis: Risque de choc électrique, ne pas ouvrir.

**CAUTION!** The international symbol of a lightning bolt inside a triangle is intended to alert the user to uninsulated "dangerous voltage" within the device's enclosure. The international symbol of an exclamation point inside a triangle is intended to alert the user to the presence of important operating, maintenance and servicing information in the manual accompanying the device.

**CAUTION!** To prevent electrical shock, match wide blade of plug to wide slot, fully insert. Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

**CAUTION!** To reduce the risk of electrical shock, do not expose this equipment to rain or moisture.

1. Read Instructions—All safety and operating instructions should be read before operating the device.
2. Retain Instructions—The safety and operating instructions should be retained for future reference.
3. Heed Warnings—All warnings on the device and in the operating instructions should be adhered to.
4. Follow Instructions—All operating and safety instructions should be followed.
5. Water & Moisture—The device should never be used in, on or near water for risk of fatal shock.
6. Carts & Stands—The device should only be used on carts or stands recommended by the manufacturer.
7. Wall & Ceiling Mounting—The device should be mounted on a wall or ceiling only as recommended by the manufacturer.
8. Ventilation—The device should always be located in such a way that it maintains proper ventilation. It should never be placed in a built-in installation or anywhere that may impede the flow of air through its heat sink.
9. Heat—Never locate the device near heat sources such as radiators, floor registers, stoves or other heat-generating devices.
10. Power Supply—The device should only be connected to a power supply of the type described in the operating instructions or as marked on the device.
11. Power Cord Protection—Power cables should be routed so they are not likely to be stepped on or crushed by items placed on them or against them. Special attention should be paid to areas where the plug enters a socket or fused strip and where the cord exits the device.
12. Cleaning—The device should be cleaned in accordance with manufacturer's instructions.
13. Periods Of Non-Use—The device should be unplugged when not being used for extended periods.
14. Dangerous Entry—Care should be taken that no foreign objects or liquids fall or are spilled inside the device.
15. Damage Requiring Service—The device should be serviced by licensed technicians when:
  - The plug or power supply cord has been damaged.
  - Objects have fallen on or liquid has spilled inside the device.
  - The device has been exposed to moisture.
  - The device does not appear to be operating properly or exhibits a marked change in performance.
  - The device has been dropped or the cabinet becomes damaged.
16. Service—The device should always be serviced by licensed technicians. Only replacement parts specified by the manufacturer should be used. The use of unauthorized substitutions may result in fire, shock, or other hazards.

## CAUTION: Important Safety Instructions

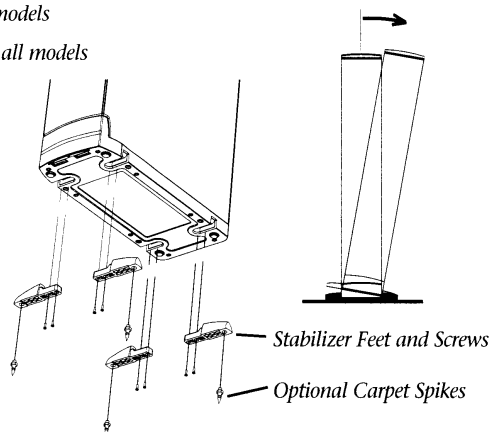
### WARNING: DO NOT OPERATE SPEAKER WITHOUT STABILIZER FEET INSTALLED

#### Accessories included in your Bipolar ST box:

1. Stabilizer Feet: Qty (4) BP-8080ST, BP-8060ST, and BP-8040ST; Qty (2) BP-8020ST
2. Philips Head Screws: Qty (8) BP-8080ST, BP-8060ST, and BP-8040ST; Qty (4) BP-8020ST
3. Carpet Spikes: Qty (4) *all models*
4. Hard Floor Glides: Qty (4) *all models*

#### Accessory Installation

*\*Definitive Technology is not responsible for damage to floors caused by misuse of the provided accessories.*



**Figure 1**

#### Power Supply

1. The fuse and power disconnect device are located on the back of the speaker.
2. The disconnect device is the power cord, detachable at either the speaker or the wall.

## Unpacking Your BP-8000 Super Tower

### Please Inspect For Shipping Damage

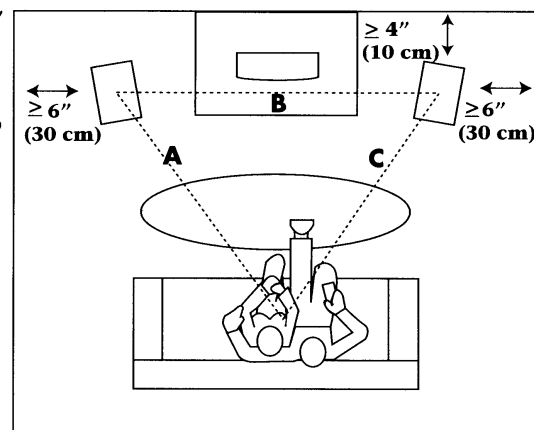
Each loudspeaker leaves our plant in perfect condition. Any visible or concealed damage most likely occurred in handling after it left our plant and should be reported to your Definitive dealer or the delivery company that delivered your loudspeaker. Please unpack your system carefully. Save all cartons and packing materials in case you move or need to ship your system. Record the serial number found on the back of the Bipolar 8000ST speaker.

## Positioning the Speakers in Your Room

Your new Bipolar speakers are very flexible in terms of positioning and placement. To optimize their performance, please follow these simple guidelines. Although the following recommendations will usually yield the best results, all rooms and listening sets-ups are different, so do not be afraid to experiment with the speaker placement. Whatever sounds best to you is correct.

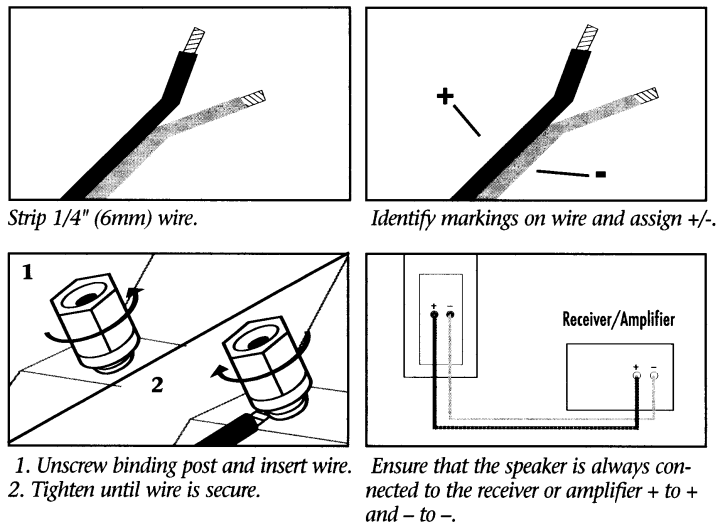
### Figure 2 Positioning Bipolar ST as Left/Right Main Speakers

Set up the speakers and listening position in an equilateral triangle as illustrated. You will also get good results if the listeners are a bit farther away. For example, if line A and C are each 10' long then line B would be between 7' and 8' long.



## Connecting Your Loudspeakers

Figure 3 – Wiring and Polarity



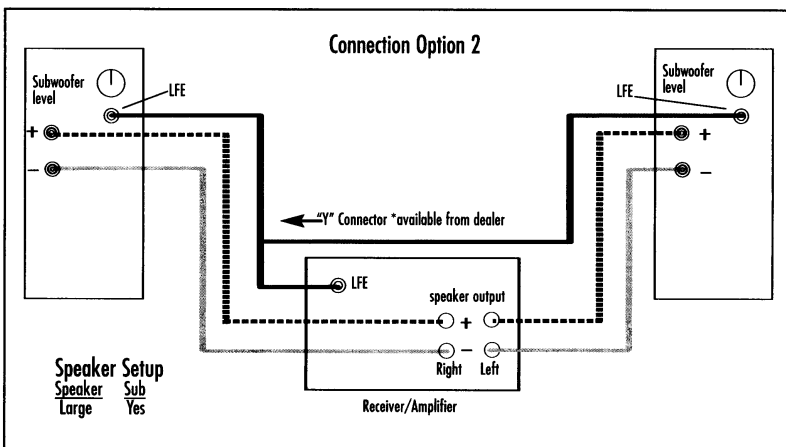
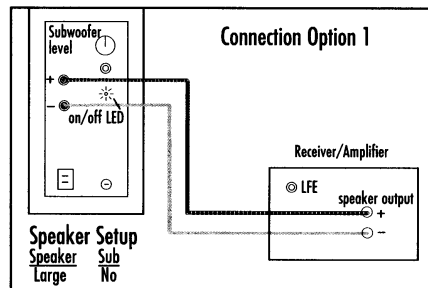
### Wiring Options: High Level, High Level and LFE w/ "Y" Connector

#### VERY IMPORTANT:

**Do not use your receiver's auto set-up functions as they are often ineffective in setting up and adjusting speakers with built-in powered subwoofers!**

Use the manual speaker setup functions in your receiver to set speaker configuration, speaker distance and channel balance. Consult your receiver's or processor's manual to learn how to access and use the set up menus. Use the settings called for in **Figure 4**.

Figure 4



## Powering the Active Subwoofer

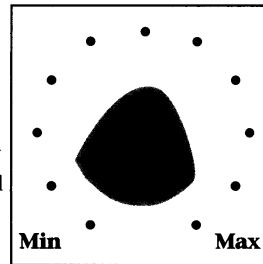
Your Bipolar STs contain a built-in subwoofer amplifier that must be plugged into an electrical socket. When powering up from being unplugged, the LED on the amplifier panel will flash for 30 seconds while the firmware is loading. The Bipolar ST has a special circuit which automatically turns on when a signal is fed to the loudspeaker. The LED on the back panel will light up when a signal is sensed and the amplifier turns on. After the cessation of a signal, it may take up

to an hour for the amplifier to turn off. Due to stray radio signals (RF) in your area, the LEDs may not turn off. Do not be concerned, the amplifiers draw little power when they are idle.

## Setting Your Speakers' Low-Frequency Level Control

Your Bipolar STs have bass level controls which allow you to adjust the output level of the powered subwoofers to match your room and personal listening preferences. Please note that there are no controls to vary the crossover points or phase. The crossover points and phase have been factory-calibrated to provide perfect blending. We suggest beginning with the level control set at approximately 12 o'clock.

Each speaker's bass controls can also be set differently in order to allow you to compensate for asymmetrical positioning of the speakers in your room (i.e., when one is closer to a side wall or corner, etc.).



## Complete Home Theater System

We strongly suggest that you use matching Definitive center channel and rear/surround speakers to complete your Definitive home theater system. Please note that you can use Definitive Bipolar SuperTowers as rear or side surround speakers with excellent results for both music and movies.

## Troubleshooting

If you experience any difficulties with your Bipolar ST loudspeakers, try the suggestions below. If you still have problems, contact your Definitive Technology Authorized Dealer for assistance.

1. **Audible distortion** when the speakers are playing at loud levels is caused by turning up your receiver or amplifier louder than the receiver or the speakers are capable of playing. Most receivers and amplifiers put out their full-rated power well before the volume control is turned all the way up, so the position of the volume control is a poor indicator of its power limit. If your speakers distort when you play them loud, turn the volume down!
2. If you experience a **lack of bass**, it is likely that one speaker is out of phase (polarity) with the other and needs to be rewired with closer attention to connecting positive to positive and negative to negative on both channels. Most speaker wire has some indicator (such as color-coding, ribbing or writing) on one of the two conductors to help you maintain consistency. It is essential to connect both speakers to the amplifier in the same way (in phase).
3. Make sure all your system interconnects and power cords are solidly in place.
4. Should you hear **hum or noise** coming from your speakers, try plugging the speakers' power cords into a different AC circuit than your amplifier.
5. The system has sophisticated **internal protection circuitry**. If for some reason the protection circuitry trips, turn off your system and wait five minutes before trying the system again. If the speakers' built-in amplifier should over-heat, the system will turn off until the amplifier cools down and resets.
6. Check to be sure that your power cord has not been damaged.
7. Check that no foreign objects or liquid has entered the speaker cabinet.
8. If you cannot get the subwoofer driver to turn on or if **no sound** comes out and you are sure the system is set up properly, please bring the loudspeaker to your Definitive Technology Authorized Dealer for assistance; call first.

# BIPOLAR SUPERTOWER OWNER'S MANUAL

Specifications	BP-8080ST	BP-8060ST	BP-8040ST	BP-8020ST
Overall Frequency Response	18Hz - 30kHz	20Hz - 30kHz	25Hz - 30kHz	30Hz - 30kHz
Sensitivity	92dB	92dB	92dB	92dB
Impedance	Nominal 8 Ohms	Nominal 8 Ohms	Nominal 8 Ohms	Nominal 8 Ohms
Minimum Recommended Associated Amplifier Power	20-400w	20-300w	20-300w	20-250w
Maximum Recommended Associated Amplifier Power	400w	300w	300w	250w
Built-In Subwoofer Amplifier Power	400w	300w	300w	150w
<b>Dimensions</b>				
Height	48-1/4" (122.5 cm)	44-3/16" (112.2 cm)	39" (99.1 cm)	35-7/8" (91.033 cm)
Footprint Width	11-7/8" (30.2 cm)	10-7/8" (27.5 cm)	10-1/2" (26.6 cm)	10-1/2" (26.6 cm)
Footprint Depth	16-5/16" (41.3 cm)	13-1/16" (34.1 cm)	11-5/8" (29.4 cm)	11-5/8" (29.4 cm)
Speaker Width	7" (17.8 cm)	5-15/16" (15.1 cm)	5-5/8" (14.2 cm)	5-5/8" (14.2 cm)
Speaker Depth	16-5/16" (41.3 cm)	13-7/16" (34.1 cm)	11-5/8" (29.4 cm)	11-5/8" (29.4 cm)
<b>Speaker Complement</b>				
Active woofer quantity	1	1	1	1
Woofer Diameter	12" (30.48 cm)	10" (25.4 cm)	8" (20.32 cm)	8" (20.32 cm)
Bass Radiator Quantity	2	2	2	Vented
Bass Radiator Diameter	12.5" (31.75 cm)	10" (25.4 cm)	8" (20.32 cm)	
Midrange Driver Quantity	3	3	3	3
Diameter	5.25" (13.34 cm)	4.5" (11.43 cm)	3.5" (8.9 cm)	3.5" (8.9 cm)
Tweeter Quantity	2	2	2	1
Diameter	1" (2.54 cm)	1" (2.54 cm)	1" (2.54 cm)	1" (2.54 cm)

## Technical Assistance

It is our pleasure to offer assistance if you have any questions regarding your Bipolar STs or their set-up. Please contact your nearest Definitive Technology dealer or call us directly at (800) 228-7148 (US & Canada), 01 (410) 363-7148 (all other countries) or e-mail [info@definitivetechnology.com](mailto:info@definitivetechnology.com). **Technical support is offered in English only.**

### Definitive Technology Offices

11433 Cronridge Drive, Owings Mills, Maryland 21117

Phone: (800) 228-7148 (US & Canada), 01 (410) 363-7148 (all other countries)

## Service

Service and warranty work on your Definitive loudspeakers will normally be performed by your local Definitive Technology dealer. If, however, you wish to return the speaker to us, please contact us first, describing the problem and requesting authorization as well as the location of the nearest factory service center. **Please note that the address given in this booklet is the address of our offices only. Under no circumstances should loudspeakers be shipped to our offices or returned without contacting us first and obtaining return authorization.**

### Limited Warranty: 5-Years for Drivers and Cabinets, 3-Years for Electronic Components

DEI Sales Co., dba Definitive Technology (herein "Definitive") warrants to the original retail purchaser only that this Definitive loudspeaker product (the "Product") will be free from defects in material and workmanship for a period of five (5) years covering the drivers and cabinets, and three (3) years for the electronic components from the date of the original purchase from a Definitive Authorized Dealer. If the Product is defective in material or workmanship, Definitive or its Authorized Dealer will, at its option, repair or replace the warranted product at no additional charge, except as set forth below. All replaced parts and Product(s) become the property of Definitive. Product that is repaired or replaced under this warranty will be returned to you, within a reasonable time, freight collect. This warranty is non-transferable and is automatically void if the original purchaser sells or otherwise transfers the Product to any other party.

*This Warranty does not include service or parts to repair damage caused by accident, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage in excess of the rated maximum of the unit, cosmetic appearance of cabinetry not directly attributable to defects in material or workmanship. This warranty does not cover the elimination of externally generated static or noise, or the correction of antenna problems or weak reception. This warranty does not cover labor costs or damage to the Product caused by installation or removal of the Product. Definitive Technology makes no warranty with respect to its products purchased from dealers or outlets other than Definitive Technology Authorized Dealer.*

#### THE WARRANTY IS AUTOMATICALLY VOID IF:

- 1) The product has been damaged, altered in any way, mishandled during transportation, or tampered with.
- 2) The product is damaged due to accident, fire, flood, unreasonable use, misuse, abuse, customer applied cleaners, failure to observe manufacturers warnings, neglect or related events.
- 3) Repair or modification of the Product has not been made or authorized by Definitive Technology.
- 4) The product has been improperly installed or used.

Product must be returned (insured and prepaid), together with the original dated proof of purchase to the Authorized

Dealer from whom the Product was purchased, or to the nearest Definitive factory service center. Product must be shipped in the original shipping container or its equivalent. Definitive is not responsible or liable for loss or damage to Product in transit.

THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY THAT APPLIES TO YOUR PRODUCT. DEFINITIVE NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH YOUR PRODUCT OR THIS WARRANTY. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS, IMPLIED, WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED AND DISCLAIMED TO THE MAXIMUM EXTENT ALLOWED BY LAW. ALL IMPLIED WARRANTIES ON PRODUCT ARE LIMITED TO THE DURATION OF THIS EXPRESSED WARRANTY. DEFINITIVE HAS NO LIABILITY FOR ACTS OF THIRD PARTIES. DEFINITIVE'S LIABILITY, WHETHER BASED ON CONTRACT, TORT, STRICT LIABILITY, OR ANY OTHER THEORY, SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT FOR WHICH A CLAIM HAS BEEN MADE. UNDER NO CIRCUMSTANCE WILL DEFINITIVE BEAR ANY LIABILITY FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES. THE CONSUMER AGREES AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND DEFINITIVE SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAWS IN SAN DIEGO COUNTY, CALIFORNIA. DEFINITIVE RESERVES THE RIGHT TO MODIFY THIS WARRANTY STATEMENT AT ANY TIME.

Some states do not allow the exclusion or limitation of consequential or incidental damages, or implied warranties, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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All rights reserved.



This product complies with the essential requirements of the EMC directive 89/336/EEC.

**Definitive Technology®**  
The Leader in High-Performance Loudspeakers®

For more information on Definitive Technology Loudspeakers and accessories, visit [www.definitivetechnology.com](http://www.definitivetechnology.com), or email [info@definitivetechnology.com](mailto:info@definitivetechnology.com).  
Definitive Technology, Owings Mills, Maryland, USA. 800-228-7148

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# REGISTER YOUR

You could win a **FREE** powered subwoofer worth \$400 retail value\*

**There are important benefits to registering your new Definitive Technology product:**

- We'll automatically enter your name into a **monthly drawing** for a **FREE** \$400 powered subwoofer\*
- You'll have **peace of mind** knowing that we have a permanent record of your product purchase for warranty verification (with upload of receipt scan)
- You'll be assured of receiving **service/upgrade alerts**
- **It's fast and easy**
- **Privacy.** The data we gather during on-line registration is never sold

**<http://www.DefinitiveTech.com>**

\*Definitive Technology ProSub 800 or equivalent. See Official Rules for Details. No purchase necessary. Sweepstakes void outside the 50 United States and the District of Columbia, and where prohibited by law.

Failure to complete and submit the product registration form does not diminish your warranty rights. Warranties apply as stated in the product manual. Please be sure to keep your original purchase receipt.

ProSub 800



## **No Internet access?**

Call Definitive Technology Customer Service M-F 9:30 AM – 6:00 PM US Eastern Standard Time at (410) 363-7148, and we'll help you with the simple registration process. Or you can send us a letter to Definitive Warranty Registration at the address below with your name, address, phone number, serial number(s) of the product(s) and a photocopy of your sales receipt. Your name will be entered into the drawing regardless of how you choose to register.

Definitive Technology  
11433 Cronridge Dr. Suite K • Owings Mills, MD 21117  
(410) 363-7148 • [info@DefinitiveTech.com](mailto:info@DefinitiveTech.com)

*Definitive Technology®*  
The Leader in High-Performance Loudspeakers®

*Definitive Technology®*

**BP8080**

SUPERTOWERS FEATURING BUILT-IN POWERED SUBWOOFERS



> **Forward Focused Bipolar Array™ technology** – for a three-dimensional lifelike sonic image for every listener in the room.

> **Built-in powered subwoofers** – for deep powerful bass distributed evenly throughout the room as well as space-saving convenience.

> **Second generation BDSS™ midrange drivers** – for high definition clarity, vanishingly low distortion and ultimate realism.

> **Pure aluminum dome tweeters** – for extended highs that reveal nuance and shimmer without a trace of edginess.

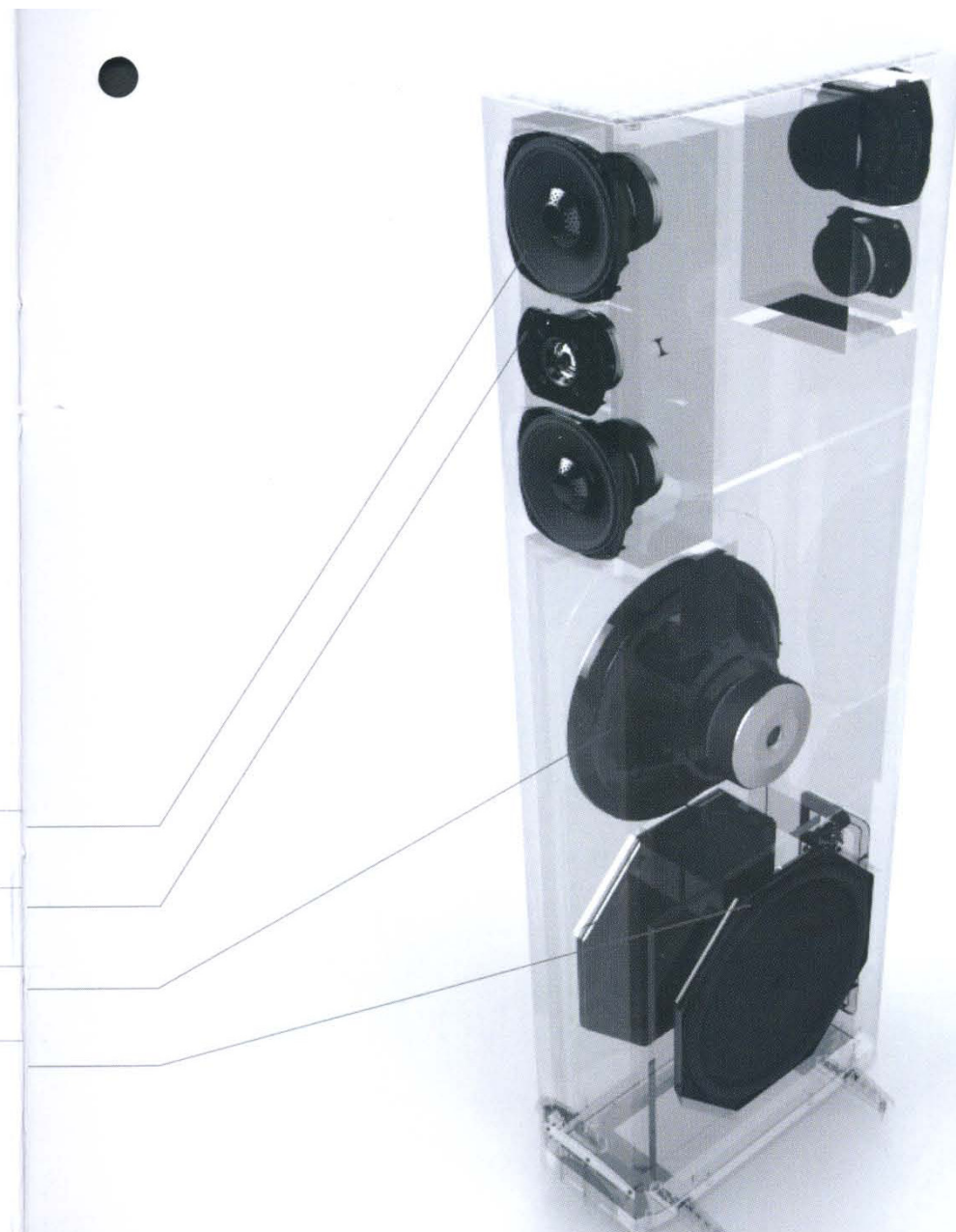
Three 5-1/4" second generation BDSS drivers

Two 1" aluminum tweeters

One 12" high excursion subwoofer

Two 12-1/2" low bass radiators

## BP-8080ST SuperTower® FEATURES





FORWARD SOUND



REAR REFLECTED SOUND



BIPOLAR SOUNDSTAGE

Speakers on both the front and the back of the enclosure radiate sound like live musical instruments

The dramatic benefits: a huge three-dimensional stereo soundstage for every listener in the room

Definitive's bipolar speakers bring your music to life!

# BIPOLAR TECHNOLOGY





**SAVES SPACE  
EASIER SYSTEM SET-UP  
BETTER PERFORMANCE**

12" Active Subwoofer

455 Watt Digital Signal  
Processing Amplifier

Two 12-1/2" Low Bass Radiators

(Dacron damping material  
omitted from illustration for  
clarity)

## BUILT-IN POWERED SUBWOOFER BENEFITS

- > **Saves space** - eliminates the need for a separate subwoofer
- > **More bass** - two subwoofers in the room instead of just one for simply more bass output.
- > **Evenly distributed bass** - two subwoofers lessen the effects of room induced "standing waves" that create bass "dead zones" in various locations in a room. With two subwoofers every listener in the room will hear deep, high impact bass.
- > **Better sounding bass** - Definitive's built-in subwoofers are perfectly integrated with the mid/high section so you don't have to spend hours adjusting a subwoofer's crossover and phase controls in pursuit of perfect subwoofer-to-main-speaker "blending" and perfect sound.  
All you have to do is set the bass volume to match your room and taste then sit back and enjoy audio perfection.

## BUILT-IN POWERED SUBWOOFERS

Balanced Double Surround  
System midrange drivers  
with cast basket

Pure Aluminum Dome  
Tweeters

Phase Coherent  
Crossover

Cast Aluminum Basket

Oversize High Gauss  
Magnet

Injection molded  
Polymer Composite Cone

Linear Response  
Waveguide

Balanced Double  
Surround System (BDSS)



BDSS™ PATENTED TECHNOLOGY



Sealed MDF  
Midrange  
Enclosures

Double Layer  
MDF Baffle Panels

MDF Cross-brace

Stability Feet with  
Carpet Spikes

(Dacron damping material  
omitted from illustration for clarity)





**Height:** 48-1/4"  
(122.5cm)

**Footprint Dimensions  
(including stabilizer feet):**  
12-1/8" W x 16-5/16" D  
(30.8cm x 41.3cm)

**Driver Complement:** Two 1" aluminum dome tweeters; three 5-1/4" BDSS midrange drivers; one 12" long-throw subwoofer coupled to two 12-1/2" Low Bass radiators.

**Frequency Response:** 18 Hz - 30 kHz

**Impedance:** Compatible with 8 Ohm outputs

**Sensitivity:** 92 dB

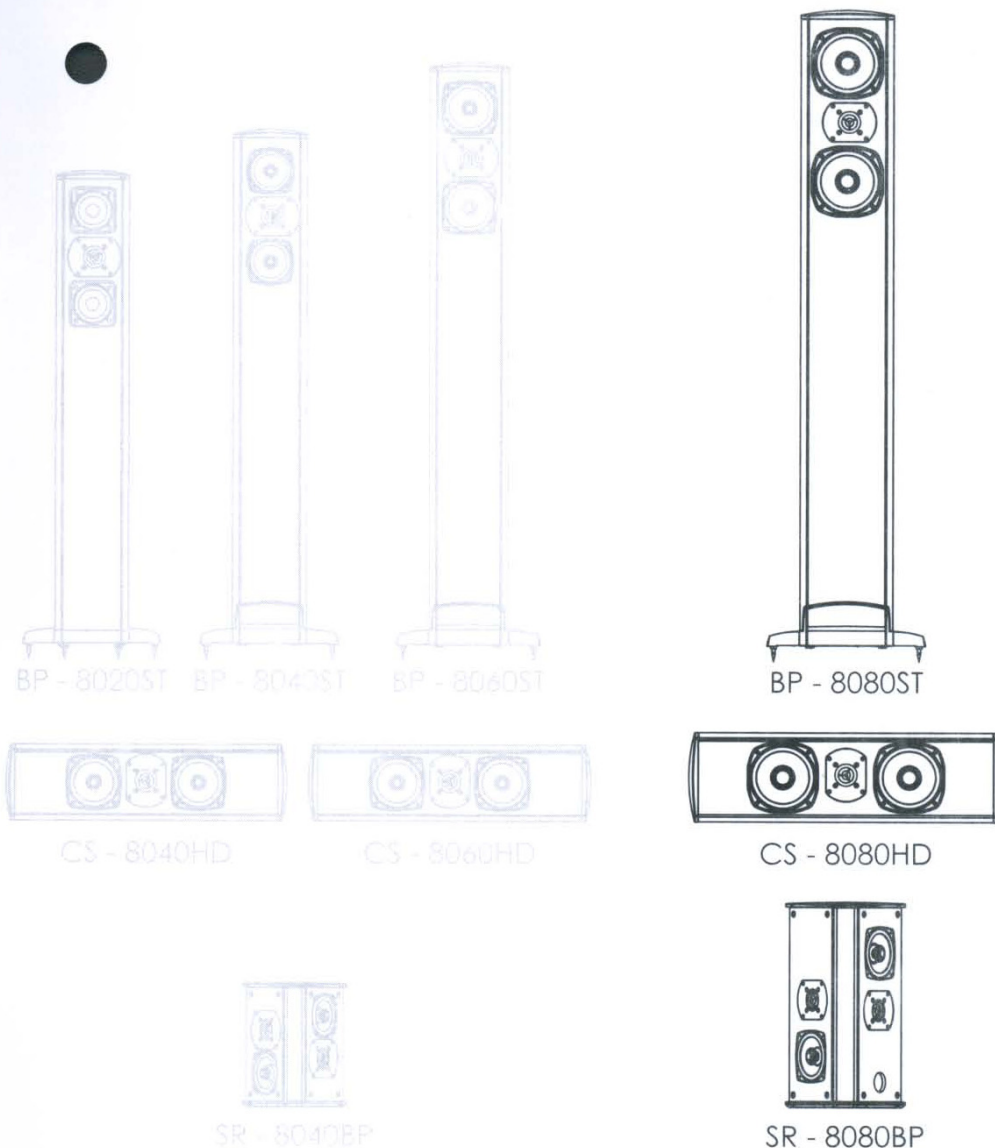
**Recommended Associated Amplifier Power:** 20 - 400 watts

**Internal Amplifier Power:** 455 watts

**Inputs:** One pair of 5 way binding posts; One LFE input

**Supplied Accessories:** Stabilizer Feet; Wood Floor Glides; Carpet Spikes

## BP-8080ST SPECIFICATIONS



## SYSTEM CONFIGURATION



*Definitive Technology*<sup>®</sup>  
The Leader in High-Performance Loudspeakers<sup>®</sup>

# The USA's Most Honored Loudspeaker Brand

Definitive Technology is the best-selling brand of audiophile-grade loudspeakers in the USA. Audio critics praise Definitive loudspeakers for their superior materials, workmanship and sound quality.

*"A brand that is as solid as any speaker manufacturer in the world."*  
[AudioVideoRevolution.com](http://AudioVideoRevolution.com)